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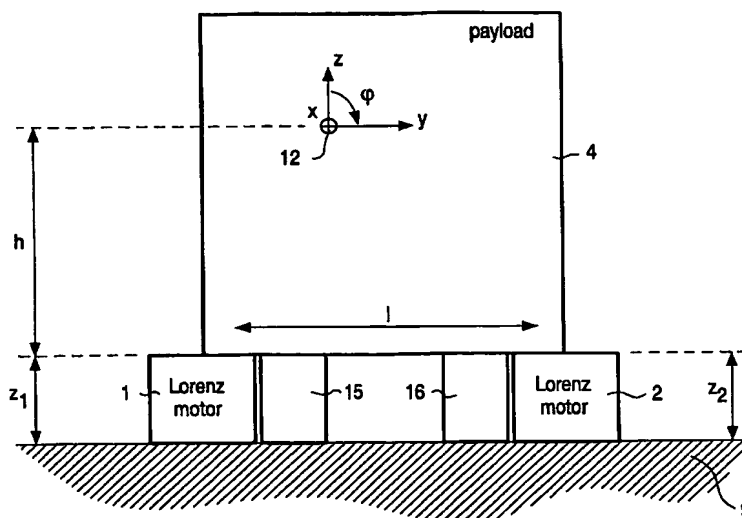
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(54) Title: LORENTZ MOTOR CONTROL SYSTEM FOR A PAYLOAD



(57) Abstract: Control arrangement for and method of controlling a plurality of Lorentz motors (1, 2) actuating a payload (4) where the payload has a center of gravity (12). Height signals (z_1, z_2) are received from sensors sensing heights of said payload. At least one angle of rotation of the center of gravity about a horizontal axis is calculated from these height signals (z_1, z_2) and from this at least one angle of rotation control signals (C_1, C_2) for the Lorentz motors (1, 2) are calculated such that a predetermined rotational stiffness for supporting the payload (4) is achieved. A typical application is a suspension for floor vibration isolation of an electron microscope or of a lithographic apparatus.

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